



Bayer Corporation  
November 6, 2002

SEQUENCE LISTING

<110> BAYER CORPORATION

<120> Pituitary Adenylate Cyclase Activating Peptide (PACAP) Receptor 3 (R3)  
Agonists and Their Pharmacological Methods of Use

<130> Bayer

<150> 09/407,832

<151> 1999-09-28

<150> 09/595,280

<151> 2000-06-15

<160> 341

<170> PatentIn version 3.1

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Leu Ala Ala Lys Lys Tyr Leu Asn Asp Ile Lys Lys Gly  
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Met Ala Val Lys Lys Tyr Leu Asn Ser Ile Lys Lys  
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<400> 57

His Ser Asp Gly Ile Phe Thr Glu Ser Tyr Ser Arg Tyr Arg Lys Gln  
1 5 10 15

Met Ala Val Lys Lys Tyr Leu Ala Ala Leu Lys Lys Lys Arg Tyr Lys  
20 25 30

Gln Arg Val Lys Asn Lys  
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<210> 58

<211> 28

<212> PRT

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<222> (28)..(28)

<223> AMIDATION

<400> 58

His Ser Asp Ala Val Phe Thr Glu Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Val Lys Lys Tyr Leu Asn Ser Leu Lys Lys  
20 25

<210> 59

<211> 31

<212> PRT

<213> Artificial Sequence

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<220>

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<222> (31)..(31)

<223> AMIDATION

<400> 59

His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln

1

5

10

15

Met Ala Val Lys Lys Tyr Leu Ser Ala Val Arg His Gly Gly Thr  
20 25 30

<210> 60  
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<220>  
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<222> (31)..(31)  
<223> AMIDATION

<400> 60

His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln  
1 5 10 15

Met Ala Val Lys Lys Tyr Leu Ala Ala Val Lys Gln Gly Gly Thr  
20 25 30

<210> 61  
<211> 36  
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<220>  
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<222> (31)..(31)  
<223> AMIDATION

<400> 61

His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln  
1 5 10 15

Met Ala Val Lys Lys Tyr Leu Ala Ala Val Lys Lys Tyr Leu Ala Ala  
20 25 30

Val Arg His Gly  
35

<210> 62  
<211> 40  
<212> PRT  
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<400> 62

Ser Trp Cys Glu Pro Gly Trp Cys Arg His Ser Asp Ala Val Phe Thr  
1 5 10 15

Glu Asn Tyr Thr Lys Leu Arg Lys Gln Leu Ala Ala Lys Lys Tyr Leu  
20 25 30

Asn Asp Leu Lys Lys Gly Gly Thr  
35 40

<210> 63  
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<220>  
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<220>  
<221> PEPTIDE  
<222> (1) .. (31)  
<223>

<400> 63

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Leu Ala Ala Lys Lys Tyr Leu Asn Asp Ile Leu Lys Gly Gly Thr  
20 25 30

<210> 64  
<211> 31  
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<400> 64

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Leu Ala Ala Lys Lys Tyr Leu Asn Asp Ile Leu Asn Gly Gly Thr  
20 25 30

<210> 65  
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<400> 65

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Leu Ala Val Lys Lys Tyr Leu Asn Asp Ile Leu Lys Gly Gly Thr  
20 25 30

<210> 66  
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<400> 66

His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln

1

5

10

15

Leu Ala Ala Lys Lys Tyr Leu Ala Asp Val Lys Lys Gly Gly Thr  
20 25 30

<210> 67  
<211> 28  
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<223>

<400> 67

His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln  
1 5 10 15

Leu Ala Ala Lys Lys Tyr Leu Ala Asp Val Lys Lys  
20 25

<210> 68  
<211> 28  
<212> PRT  
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<400> 68

His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln  
1 5 10 15

Leu Ala Val Lys Lys Tyr Leu Ala Ala Val Lys Lys  
20 25

<210> 69  
<211> 28  
<212> PRT  
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<400> 69

His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln  
1                       5                                   10                           15

Met Ala Val Lys Lys Tyr Leu Ala Ala Val Lys Lys  
20   25

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<400> 70

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1                       5                                   10                           15

Val Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Lys  
20   25

<210> 71  
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<222> (1)..(30)  
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<400> 71

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg  
20 25 30

<210> 72  
<211> 31  
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<221> PEPTIDE  
<222> (1)..(31)  
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<400> 72

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Arg Tyr  
20 25 30

<210> 73  
<211> 31  
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<400> 73

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Leu Ala Ala Lys Lys Tyr Leu Asn Thr Ile Lys Asn Lys Arg Tyr  
20 25 30

<210> 74  
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<400> 74

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg Tyr  
20 25 30

<210> 75  
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<400> 75

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Arg Tyr  
20 25 30

<210> 76  
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<400> 76

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Thr Ile Lys Asn Lys Arg Tyr  
20 25 30

<210> 77  
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<400> 77

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg Tyr  
20 25 30

<210> 78  
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<400> 78

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Leu Ala Ala Lys Lys Tyr Leu Asn Thr Ile Lys Asn Lys Arg Tyr  
20 25 30

<210> 79  
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<212> PRT  
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<222> (1) .. (31)  
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<400> 79

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala His Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg Tyr  
20 25 30

<210> 80  
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<222> (1) .. (31)  
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<400> 80

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys His Tyr Leu Asn Ser Ile Lys Asn Lys Arg Tyr  
20 25 30

<210> 81  
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<400> 81

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Leu Ala Ala His Lys Tyr Leu Asn Thr Ile Lys Asn Lys Arg Tyr  
20 25 30

<210> 82

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<212> PRT

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<223>

<400> 82

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Leu Ala Ala Lys His Tyr Leu Asn Thr Ile Lys Asn Lys Arg Tyr  
20 25 30

<210> 83

<211> 30

<212> PRT

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<223>

<400> 83

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Lys Arg  
20 25 30

<210> 84

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<400> 84

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Lys Lys Arg  
20 25 30

<210> 85  
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<400> 85

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg Tyr  
20 25 30

<210> 86  
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<400> 86

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Val Ala Val Lys Lys Tyr Leu Gln Ser Ile Lys Lys Lys Arg  
20 25 30

<210> 87

<211> 29

<212> PRT

<213> Artificial Sequence

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<222> (1)..(29)

<223>

<400> 87

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Val Ala Val Lys Lys Tyr Leu Gln Ser Ile Lys Lys Lys  
20 25

<210> 88

<211> 31

<212> PRT

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<222> (1)..(31)

<223>

<400> 88

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Val Ala Val Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Arg Tyr  
20 25 30

<210> 89  
<211> 31  
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<222> (1)..(31)  
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<400> 89

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Leu Lys Lys Arg Tyr  
20 25 30

<210> 90  
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<400> 90

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Leu Lys Lys Arg  
20 25 30

<210> 91  
<211> 29  
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<223>

<400> 91

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Leu Lys Lys  
20 25

<210> 92

<211> 29

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<222> (1)..(29)

<223>

<400> 92

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys  
20 25

<210> 93

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<222> (1)..(31)

<223>

<400> 93

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Val Ala Val Lys Lys Tyr Leu Gln Ser Ile Leu Lys Lys Arg Tyr  
20 25 30

<210> 94  
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<400> 94

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Val Ala Val Lys Lys Tyr Leu Gln Ser Ile Leu Lys Lys Arg  
20 25 30

<210> 95  
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<400> 95

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Val Ala Val Lys Lys Tyr Leu Gln Ser Ile Leu Lys Lys  
20 25

<210> 96  
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<400> 96

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Val Ala Val Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys  
20 25

<210> 97  
<211> 31  
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<400> 97

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Leu Asn Lys Arg Tyr  
20 25 30

<210> 98  
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<400> 98

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Leu Asn Lys Arg  
20 25 30

<210> 99  
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<222> (1) .. (29)

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<400> 99

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Leu Asn Lys  
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<210> 100

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<222> (1) .. (30)

<223>

<400> 100

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Cys Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg  
20 25 30

<210> 101

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<222> (1) .. (30)

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<400> 101

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Asp Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg  
20 25 30

<210> 102  
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<400> 102

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Glu Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg  
20 25 30

<210> 103  
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<400> 103

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Phe Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg  
20 25 30

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<400> 104

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Gly Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg  
20 25 30

<210> 105  
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<400> 105

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala His Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg  
20 25 30

<210> 106  
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<222> (1) .. (30)  
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<400> 106

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ile Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg  
20 25 30

<210> 107

<211> 30

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<400> 107

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Lys Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg  
20 25 30

<210> 108

<211> 30

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<222> (1)..(30)

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<400> 108

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Leu Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg  
20 25 30

<210> 109

<211> 30  
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<400> 109

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Met Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg  
20 25 30

<210> 110  
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<400> 110

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Asn Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg  
20 25 30

<210> 111  
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<400> 111

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Pro Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg  
20 25 30

<210> 112

<211> 30

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<222> (1)..(30)

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<400> 112

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Gln Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg  
20 25 30

<210> 113

<211> 30

<212> PRT

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<222> (1)..(30)

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<400> 113

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Arg Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg  
20 25 30

<210> 114  
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<400> 114

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ser Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg  
20 25 30

<210> 115  
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<400> 115

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Thr Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg  
20 25 30

<210> 116  
<211> 30  
<212> PRT  
<213> Artificial Sequence

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<400> 116

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Val Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg  
20 25 30

<210> 117

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<400> 117

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Trp Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg  
20 25 30

<210> 118

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<400> 118

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
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Met Ala Tyr Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Arg  
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<400> 119

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Ala Asn Lys Arg  
20 25 30

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<400> 120

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Cys Asn Lys Arg  
20 25 30

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His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Asp Asn Lys Arg  
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His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Glu Asn Lys Arg  
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<400> 123

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Phe Asn Lys Arg  
20 25 30

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<400> 124

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Gly Asn Lys Arg  
20 25 30

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<400> 125

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile His Asn Lys Arg  
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<400> 126

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Ile Asn Lys Arg  
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<400> 127

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Met Asn Lys Arg  
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<400> 128

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Asn Lys Arg

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<400> 129

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Pro Asn Lys Arg  
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<400> 130

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Gln Asn Lys Arg  
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<400> 131

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Arg Asn Lys Arg  
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His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Ser Asn Lys Arg  
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<400> 133

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Thr Asn Lys Arg  
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<400> 134

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1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Val Asn Lys Arg  
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His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Trp Asn Lys Arg  
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<400> 136

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Tyr Asn Lys Arg  
20 25 30

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<400> 137

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Ala Arg  
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His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Cys Arg  
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<400> 139

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Asp Arg  
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His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Glu Arg  
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His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Phe Arg  
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1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Gly Arg  
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Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn His Arg  
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<400> 144

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
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Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Ile Arg  
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His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Leu Arg  
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His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
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Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Met Arg  
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His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Asn Arg  
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His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Pro Arg  
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Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Gln Arg  
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His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
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Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Arg Arg  
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His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Ser Arg  
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Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Thr Arg  
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His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
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Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Val Arg  
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<400> 154

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Trp Arg  
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His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
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Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Tyr Arg  
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<400> 156

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Ala  
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<400> 157

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Asp  
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Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Glu  
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Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Phe  
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Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Gly  
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Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys His  
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Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Ile  
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<400> 163

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Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Lys  
20 25 30

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Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Leu  
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His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Met  
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His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
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Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Asn  
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Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Pro  
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Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Gln  
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Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Ser  
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Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Thr  
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Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Val  
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<400> 172

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Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Trp  
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His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
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Met Ala Ala Lys Lys Tyr Leu Asn Ser Ile Lys Asn Lys Tyr  
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<400> 174

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
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Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Arg Tyr Ser  
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His Ser Asp Ala Val Phe Thr Asp Asp Tyr Thr Arg Leu Arg Lys Glu  
1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Glu Ser Ile Lys Asp Lys Arg Tyr  
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Glu Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln  
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Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu  
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<400> 177

His Lys Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln  
1 5 10 15

Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu  
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<400> 178

His Ser Lys Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln  
1 5 10 15

Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu  
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Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu  
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Lys Ala Val Lys Lys Tyr Leu Ala Ala Val Leu  
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November 6, 2002

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1 5 10 15

Met Ala Ser Lys Lys Tyr Leu Asn Ser Ile Arg Asn Arg Ile  
20 25 30

